



Memorandum

To: Ohio Mathematics Chairs/Leads

CC: Provost and Chief Academic Officers

From: Dr. Ricardo Moena Faculty/Lead, Ohio Transfer Module Mathematics, Statistics, and Logic Review Panel/ Subgroup 2 of the Ohio Mathematics Initiative Chairs/Leads Network

Date: December 8, 2020

Subject: Request for Your Institutional Re-Endorsement for the Proposed Revised Learning Outcomes for Ohio Transfer Module Discrete Mathematics (TMM023)

Background

The Ohio Transfer Module (OTM), Subgroup 2, Mathematics, Statistics, and Logic have been tasked with exploring the possibility of a discrete mathematics course specializing in the application of mathematics for students interested in computer science, information technology, and related fields. This effort is rooted in future exploration of Ohio Guaranteed Transfer Pathways (OGTP) computer science and information technology pathways.

Proposed Discrete Mathematics (TMM023) learning outcomes are based on college-level mathematics. TMM023 is recommended to introduce students to the logic and mathematical structures required in these fields of interest and serve the following purposes:

- Serves as a course that acquaints mathematical reasoning and several topics from discrete mathematics that underlie, inform, or elucidate the development, study, and practice of related fields.
- Act as a course integrating topics surrounding logic, proof techniques, set theory, functions and relations, counting and probability, elementary number theory, graphs and tree theory, base- n arithmetic, and Boolean algebra.

An endorsement survey was sent to institutions in September 2020 with a deadline date of early October 2020. In order to address the concerns expressed by some institutions:

- **We have removed a number of “essential” learning outcomes and have transitioned these into “non-essential” learning outcomes to address institutional concerns on the length of**

required outcomes. These “non-essential” learning outcomes have been intact to provide flexibility and assist institutions with developing or revising their institutional course.

- The original “Functions and Relations” topical area and outcomes have been split into three separate areas that now include: “Relations”, “Functions”, and “Sequence”. The topics required to achieve the learning outcomes described in TMM023 have not changed but rather formatted accordingly.

What We Need From You

Subgroup 2 seeks re-endorsement of the proposed learning outcomes for TMM023. Please review proposed learning outcomes and coordinate efforts within your institution to complete the re-endorsement survey to determine if your institution agrees or disagrees with proposed revised course learning outcomes. We are collecting only one response per institution.

Please provide your institutional response by **January 11, 2021**. The survey link is:

<https://www.surveymonkey.com/r/XJFRB3V>

Important Note: Institutions must complete the survey via the link provided above. The attached PDF file is for reference only. Do not use the PDF version to respond to the survey.

Thank you in advance for your assistance. If you have any questions, contact Jessi Spencer Director of OATN Policy, Budget, and Constituent Relations, at 614-728-4706 or jspencer@highered.ohio.gov.

Attachments (2)